

BLOKBIMS COMPONENT AND CLAY BRICKS ; WATER ABSORPTION AND TRANSPIRE WATER FROM INNER TO OUT COMPARE ANALYSES .

On the insulation of buildings, it is more important for absorption water factor inner side of construction components. General, wall components which were used in stone buildings, those are more useful components as thermal insulation which were low water absorption and transpire water or humidity which has been taken inner side or outside. By this reason, two different products as Blokbims and Clay Brick have been analysed for water absorption and transpire water from inner side to outer side. On the reports:

Table-1 : Absorb water results of Building components by the time period.

Time Period		<u>Blokbims</u>	<u>Clay Bricks</u>
<u>(hour)</u>	<u>(min.)</u>	Absorb water <u>(%)</u>	Absorb water <u>(%)</u>
0,1	5	1,21	1,11
0,3	15	1,77	1,57
0,5	30	2,23	1,98
1,0	60	3,03	2,33
2,0	120	4,16	2,98
6,0	360	5,53	3,89
12,0	720	6,92	4,86
18,0	1080	9,67	6,97
24,0	1440	13,54	9,39
30,0	1800	16,72	12,56
36,0	2160	17,83	14,66
42,0	2520	18,71	15,87
48,0	2880	19,74	17,21
60,0	3600	22,36	18,24
72,0	4320	23,22	18,45
84,0	5040	23,74	18,97
96,0	5760	23,84	19,26

Table-2: Transpire water results of building components by time period.

Time Period		<u>Blokbims</u>	<u>Tuğla</u>
<u>(hour)</u>	<u>(min)</u>	Transpire water <u>(%)</u>	Transpire water <u>(%)</u>
0,1	5	1,93	0,38
0,3	15	2,67	0,52
0,5	30	3,89	0,73
1,0	60	4,56	0,91
2,0	120	5,74	1,05
6,0	360	6,82	1,22
12,0	720	7,91	1,45
18,0	1080	8,77	1,78
24,0	1440	9,14	1,96
30,0	1800	12,48	2,06
36,0	2160	13,51	2,35
42,0	2520	14,88	2,58
48,0	2880	15,43	2,98
60,0	3600	15,94	3,44
72,0	4320	16,27	3,85
84,0	5040	16,92	4,27

96,0

5760

17,14

5,01

Regarding on table-1, it is showing to blokbims just absorb water as % 23,84 in 96 hours. At the same time, clay bricks just absorb water as % 19,26. By the natural transpire water in same condition, Blokbims can transpire very fast water from inner side to out side instead of heating to blocks. But Clay Bricks has been stored very long period to water in side or block and transpire's time has been takes to very long than Blokbims. Regarding on table-2 which was showing, Blokbims has been trasnpired %17,14 water from inner side in 96 hours, at the same time period; Clay bricks has been transpired % 5,01 water from inside.

Such those bulding components would be use as wall blocks in construction area, without covering by plaster on surfaces and that has been getting water on out side surfaces or below surfaces; those may stored full filled water inside but can just transpire by those time period which shown in time tables. As is known, it is unenviable situation if water would be stored as long time inside of block. Therefor, clay bricks are uneviable products for thermal insulation which absorb water results was showing on table-1.